

What is claimed is:

1. A urethane-modified polyester resin composition produced by an addition reaction of a polyester resin having a hydroxyl value of about 10 to 50 mgKOH/g and a weight average molecular weight of about 5,000 to 20,000 and isocyanate.

2. The composition of claim 1, wherein the isocyanate is reacted with the polyester resin in a proportion of about 20 to 80% with respect to an equivalent weight of the polyester resin.

3. The composition of claim 1, wherein a glycol component of the polyester resin is at least one selected from the group consisting of ethylene glycol, propylene glycol, 1,4-butylene glycol, 1,6-hexanediol, neopentyl glycol, methyl propanediol, cyclohexane dimethanol, hydrogenated bisphenol A, ethylene oxide added bisphenol A, propylene oxide added bisphenol A, ethylene oxide added bisphenol F, propylene oxide added bisphenol F, ethylene oxide added bisphenol S and propylene oxide added bisphenol S.

4. The composition of claim 3, wherein the glycol component of the polyester resin comprises about 20 to 100% of a first glycol and about 0 to 80% of a second glycol based on a total equivalent weight of the glycol, and wherein the first glycol is at least one selected from the group consisting of ethylene glycol, neopentyl glycol and methyl propanediol, and the second glycol is at least one selected from the group consisting of propylene glycol, 1,4-butylene glycol, 1,6-hexanediol, cyclohexane dimethanol and hydrogenated bisphenol A.

5. The composition of claim 1, wherein an acid component of the polyester resin is at least one selected from the group consisting of phthalic anhydrides, tetrahydrophthalic anhydrides, isophthalic acid, terephthalic acid, adipic acid, azelaic acid, sebacic acid, cyclohexane diacid and trimellitic anhydrides.

6. The composition of claim 5, wherein the acid component of the polyester resin comprises about 50 to 100% of an aromatic acid and about 0 to 50% of an aliphatic acid based on a total equivalent weight of the acid, and wherein the aromatic acid is at least one selected from the group consisting of phthalic anhydrides, tetrahydrophthalic anhydrides, isophthalic acid and terephthalic acid, and the aliphatic acid is at least one selected from the group consisting of adipic acid, azelaic acid, sebacic acid and cyclohexane diacid.

7. The composition of claim 1, wherein the isocyanate is at least one selected from the group consisting of 2,4-toluene diisocyanate, 2,6-toluene diisocyanate, 4,4'-diphenyl methane diisocyanate, 2,4'-diphenyl methane diisocyanate, tetramethylxylene diisocyanate, hexamethylene diisocyanate and isophorone diisocyanate.